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Plex 3/19/2018 11:33 AM Dad, Dubois, Pascal

PURCHASE ORDER

Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada TAAC"

Tel (613) 632-5200

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Fax: 450 377 5696	g		oT-qi42	ntact:				
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/ UUS %	#\2707 DC2				Date	Status	Description	Part No	hsq	ttem
0.094\$	#\2727.62 \$	12#	¥ 0	# 21	81/17/2		304 Bar .625 X 3.00 304 Bar .625 X 3.00 32 BAR OR AISI 304/316 SS PLATE AS PER ASTM ASTG OR ASTM AS40 NOTE: AISI 303 NOT NOTE: AISI 303 NOT RECEIVE II		M304B0.6Z5X3.000	ı
0:00+¢	#/00.EZ\$	20 ft	uо	20 ft	3/21/18	Firmed	8\EX4X4 noizu1tx3 T		as per dwg d6201 rev. a	2 e Item Note
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]	\$12.8252.21 \$	î s 48	h)	îs 49	81/12/8	Firmed	304/316 0.125 Sheet : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL-S-5059 OR AS T 5513 (304) OR AS MTSA 9O (316) OR ASA MTSA 9O OR ASA AS40 OR ASME SES40		M304S11GA	₽
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7 .622\$	}s/5Z9087.4 \$	ìe 84		îz 84	81/12/8		2024-T3 .032 Sheet : MATERIAL: 2024-T3 : PER GQA-A-250/4 OR PMS-QQA-A-250/4 OR AMS 4037 OR ASTM B209	ON NEW	789.25.02M	ltem 6
7.7E3\$	\$5.878108.2\$ \$10S 8 1 9		(3)0 J. p	îs 96	3/21/18	Firmed	: MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-2560/4 OR		M2024T35.040	L
8 -6	gian						AO 4/03S-A-QQ-2MA MT2A AO 7E04 2MA 8209			
).881 \$	₩/S <i>L</i> `Z\$	20 ft	H O	n os	3/21/18	Firmed	AISI 4140 Quenched & Tempered Steel Round Bar 1.125" Dia. A ISI 4140 Q&T Round Bar Bar A 19141 A 19141		2S1.18-T00414-TM	8
							: MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER AT40 QT OR ASTM A142 QT			
· Z\$	#/9991415.0\$	12 ft	1	11.21	3/21/18	Firmed	1018-1025 Round Bar 1313		E16.0A8101M	6
840 68-6	81 9 2018	/W	,71				- MATERIAL: AISI 1018- 1025 ROUND BAR 1025 ROUND BAS PER MIL-S-7097 OR ASTM 801A receive ff			
7775	11/52135.41\$	24 H	12 Jel	J 42	3/1/18		03.7 X 03.5 B at-150 6 12.50 X 1.50 -1500 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	(M60617682.500X01.500	01
68-6	8102 613	AAM	1 4				QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS A-117/4128/4115/4116 OR A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 ASTM B211 OR B221			
`SZ † \$	H/9267.91\$	74 ti	ħО	ያ ቀ ዚ	81/12/2		receive ff 606176 Bar 1.000 X 5.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS A-225/8 OR AMS		000.2X000.183T1303M	Į.
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£.271 \$	11/999198.41	। प्रा	13	11.21	3/1/18	bəmıi∃	6061T6 Bar 1.250 X 3.000 HATERIAL: 6061- SaT\ff651\feat\feat\feat\feat		000.£0X032.189T1808M	. Item
	810S 81 9AN	Ą	×1				ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-			
SAG	0107 64						SMA 90 8/25/4 90 3114/5114/8/1114 90 3MA 90 9000 A 20			
68-6							QQ-2MA 9O 8\QQ-A-QQ- 0014 2MA 9O 8\QQ-A			
							AO 11SB MTSA AO 1SSB MTSA			
\$298	#\2\294.7\$	11 04	H O	H 04	3/21/18	Firmed	receive ft 6061-T6 Bar 1.00 X 2.00		000 600000 1407100011	
			Oh				: MATERIAL: 6061- T6/T651/T6510/T6511/T62 AEUMINUM BAR PER		M606118971900M	13
Ad	19 2018	MAR	- 1				QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS AT17/4128/4115/8716 AO 300/9 AO 300/9			
58-6							Q-200-8MA 9O 8\002-A-000 A-200\8 AMA 9O 8\002-A AO 1128 MT2A 9O			
997\$	¥/999134.91\$	# 45	ño	+3 VC	0111018	le e seed 3	ASTM B221 receive ft			
		11 1-7	\ ht	24 ft	3/178	Firmed	606176 Bar 1.00 X 6.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-		000.80X000.188T1808M	Þl
SAG	R 1 9 2018	AM					SMA 90 8/25.4 90 3114/5114/8/114 90 3MA 90 9/000 A 20			
68-6							Q-A-200/8 OR WS-QQ- 0015 AMA 90 8/00/2-A 90 1128 MT8A 90 1228 MT8A			
242	#\881.1\$	36 ft	ñ O	H 9E	3/21/18	Firmed	receive ft 304 Round Bar 0.375		M304R0.375	SI
2AQ	9 2018	r AAM	R				: MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE			
2323	#/777718.6\$	36 ft	¥ 0	36 ft	3/27/18	Firmed	receive ff 303 Hex Bar .500		M303H0.500	91
							: MATERIAL: AISI 303 SS HEX BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft			2.
·96 \$	11/99926.7\$	# Zi	¥ 0	ii St	3/21/18	Firmed	303 Round Bar 0.625" : MATERIAL: AISI 303 SS : ROUND BAR AS PER ACOUND BAR ASS : NOTE:304/316 NOT		628.0A60£M	۷1

						30	JoN 19b1O			
22'923'	Stand Total:)								
, 630 20							4128/4115/4116 OR QQ- AA-200/8 OR PMS-QQ-A- 200/8 OR AMS 4160 OR AST OR ASTM SSS1			
SACI	8102 61	8AM	Of				: MATERIAL: 6061- T6/T651/16510/T6511/T62 ALUMINUM ROUND BAR RAS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR		-	17
2.961\$	11/9818.6\$	ñ os	# 0	20 ft	3/21/18	Firmed	ASTM B221 OR ASTM B221 receive fi 606116 Round Bar 2.00		000.SA9T1809M	21
2AQ	819 2018		, Or	20 H	81/12/8	Firmed	: MATERIAL: 6061- T6/T651/16510/T651/T65 T6/T6510/T6510/T65 ALUMINUM ROUND BAS PAS PER QQ-A-225/8 OR T114 SMA T118/81/15 A128/41/15/41/16 OR QQ- A128/41/15/41/16 OR QQ- A128/41/15/41/16 OR QQ- A128/41/16/41/16 OR QQ-		002.1ЯЭТ1Э0ЭМ	SO
2.011\$	#\128.8\$	70 K	11 0	400	81/16/6	powaid	receive ft			
68-6	8107. 61. 81	4M	, QC				2. MATERIAL: 6061- T6/T651/T651/D53/T/E3T/T65 T6/T651/T651/D53/T/E3T/D5 T6/T65/T/E3T/D5/E3T/D5/E3T/D ANDS-QQ-A-225/8 ANDS-QQ-A-225/8 T6/T6/P15/P115/P116 ANDS-QQ-A-A-200/8 T6/T6/P15/P115/P116 T6/T6/T/E3T/D5/E3T/D5/P1/E3T/D5/E3T			
1:0h	Weber of	SO ft	ЯO	30 H	81/12/8	Firmed	0.250" 0.250"		M6061T6R0.250	61
7:E\$	#/99S1 [.] 0\$	# 00					TITA 2MA TITA 2MA 2MC 2MC- TITA 28/115/4115 OR OR -AA- AC 200/8 OR AMC 4160 OR MTSA 9O 1228 MTSA 9O 1228 TSA 30 TSA 30			
∀d	19 2018	9AM	,41				: MATERIAL: 6061- TG/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR			
7.148	#/666634.6\$	12 ft	¥ 0	121	3/21/18		6061 Round Bar 1,125		M606116R1.125	18
Price	Price (CAD)	Balance		Quantity	Date	Status	Description	Supplier Part No	heq	Line
Extende	JinU	1 1	Received	Order	Due					

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable) A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

www.darlaerospace.com for further explanation.

A049 supplier awareness
Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our A59100 requirements. To learn in detail, please visit

Plex 3/15/18 11:10 AM dart.lavoie.chantal



Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

ACIER OUELLETTE INC.
935, Boul. du Hâvre
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

> Date Customer N°

CLI0001056

2018/03/15

2018/03/16

Delivery date

039320 Josianne Bourdon

Processed by Your order No

Carrier Salesman

OUELLETTE VALLEYFIELD

Credit Terme

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Net 30 Days

Instruction F-M De	Delivery Route	U1		Page	е		1			
	Wallet	2			PCS NB	B	Ir	Internal Use Only	Use C	inly
Product Description	Weight	Ath	O/M	CMD	EXP	B/0	IN	S	С	OUT
1 SHEET SS 11G SS304-2B (4 X 8)	336.00	64.00	PI2_\$CLB				11/12	_		DAS
FESS-11G483042B 3402					1		5 4	2	D 1	The more
2 X 4' X 8" HEAT: 459P LINE 4					2			3	3	88-8 9107 E.I VINI
2 SHEET SS 18G SS304-2B (4 X 8)	268,80	128.00	PI2_\$CLB				20012			DA
FESS-18G483042B 3425					7		120		MAR	MAR 1 9 7018 9-00
4 X 4' X 8' (HEAT: LZS13CO3 LINE S	The second secon	From State of Males and Control of Males and Contro			1		TOTAL STREET,			
3 ROUND CR 5/16-1018 (R)	3.13	12.00	PI_\$CLB		,		Š			LAS
RCR-516 5348					Ó,		7	77-	A.	D 100
1 X 12' R/L HEAT 41994AA LINEIO					4		•	***		Mrs. o
4 FLAT ALU 1 1/2 X 2 1/2 6061-16 *	105.74	24.00	PI_\$CLB							
FAL-112212 2439					,		1/1			DAS
The state of the s					5		77	5	>	Acres Committee
2 X 12' HEAT. 386350 LINE 11					Ot to		1	MAK	C	68-6 6111
					C					

NIR: R-109516-6

Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD 1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

DELIVERY - CLIENT

Copy C000078754

ACIER OUELLETTE INC.
935, Boul. du Hâvre
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Date Delivery date **Customer N°** CLI0001056 2018/03/16 2018/03/15

Your order No 039320

Processed by Josianne Bourdon

Carrier Salesman

Net 30 Days OUELLETTE VALLEYFIELD

Page **Credit Terme**

Att : CHANTAL LAVOIE Tél.: 613-632-5200

					PCS NB		nterna	Internal Use Only	Only
Froduct Description	Weight	Qty	× ×	CMD	EYD B/O	1	7		
5 FLAT ALLI 1 1/4 X 3 6061-T6 *	52 87	12 00 pr	DI &CID	+	+		-		00.
			1			ے			
				-		+		MAR	MAR 1 9 2018 9
1 X 12' PHEAT: 38355 LINE 13				1	4	* 4			(
6 FLAT ALU 1 X 2 6061-76 *	96.00	40.00 PI	PI_\$CLB						DAS
FAL-12 2497					3,	52.			tends
The state of the s				2	7+20	(3	MAR 1 9	Le Kulk B.L
		the common of the company of the com	and the second	0		West Committee of the C			
7 FLAT ALU 1 X 6 6061-T6*	169.18	24.00 PI_	PI_\$CLB		,	7			DAS
FAL-16 2536				_	Ó	15%		_	
1),	1		3	MANIS	68-6
2 X 12" HEAT: 37241 LINE 15				9					
8 ROUND SS 3/8 304 (R)	13.54	36.00 PI_	PI_\$CLB	_					
RSS-38 5768					· · ·	2			DAS
1/2				_	٥٠	_	AR 1 9 7	2018	2 2
3 X 12' R/L HEAT . 646M LINE 16				D,	1/6				
				()					88-8

NIR: R-109516-6

Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

DELIVERY - CLIENT

CO00078754

ACIER OUELLETTE INC.
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

> Date Customer No

> > CLI0001056

Delivery date 2018/03/15 2018/03/16

Your order No 039320

Processed by Josianne Bourdon

Salesman

Credit Terme Carrier

Att : CHANTAL LAVOIE Tél.: 613-632-5200

OUELLETTE VALLEYFIELD

Net 30 Days

Instruction F-M Deli	Delivery Route	U)		Page	е		ω			
Product Description	Weight	40	E/M		PCS NB	8	н	Internal Use Only	Use On	γ
		4.3	0/17	CMD	EXP	B/0	NI	S	C	OUT
9 ROUND ALU 1 1/8 6061-T6 *	14.00	12.00	12.00 PI_\$CLB	1			1		-	7
RAL-118 5124			3	3	۵,	7	2		MAR 1 9 2018	9 2018 DAS
1 X 12' HEAT: 200238043 LINE 19					4					
10 ROUND ALU 1/4 6061-T6 *	1.16	20.00	PI \$CLB							DAS
RAL-14 5135			ļ		3,		7	3	MAR 19	19 7018
1 X 20' HEAT: 87081 LINE 20				-	t-2		20			
					-					

12 ROUND ALU 2 6061-76

5149

73.80

20.00

PI_\$CLB

1+20.

8

MAR 19

88-6 DAS 1 X 20' HEAT 36375 LINE 21

1 X 20' HEAT: SXD162058 LINE 22

11 ROUND ALU 1 1/2 6061-T6 *

RAL-112

5119

41.52

20.00

PI_\$CLB

1+20,

8

N.A.

9-8-P

NIR: R-109516-6

DELIVERY - CLIENT

CO00078754

Billed to DART AEROSPACE LTD HAWKESBURY, Ontario, K6A 1K7 Instruction 1270, ABERDEEN ST. T-3 Shipped to Att: CHANTAL LAVOIE Tél.: 613-632-5200 **Delivery Route** , Ontario, Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Salaberry de Valleyfield (Québec) J6S 5L1 ACIER OUELLETTE INC. Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 935, Boul. du Hâvre UI Page Date **Credit Terme** Carrier Salesman Your order No **Delivery date** Customer No Processed by Net 30 Days **OUELLETTE VALLEYFIELD** 039320 CLI0001056 2018/03/15 Josianne Bourdon 2018/03/16 00:00

CMD EXP B/O IN I S C OUT

Prepared By: Verified By Delivered By Time Customer's Signature

Total (\$CAD)

1-2-747

ELS61 07/

(h1)

alopai Aistoria CLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: My Xunn BI-Conse Industrial zone, My Xuan town, Tan Thanh district,

+84(11)643924954 15[Ba Rin-Vers Tau province, Viet Nam

124(0)043024053 :x04

MILL TEST CERTIFICATE

Date: January 19, 2017

Consignee: SINOMETAL RESOURCES INC.

4427 BOR CONSENS AVINGENCY ORBERC' H42 1X2' CVNVDV

Custoner PO. Liventory PO number: 16-2-121

अभिरामिति हिटा पूर हो । ५ १५ १९४५

CC Not 1XC DANS / 10X33

Outs of issue January 18, 2017

1tem Code: 1043403

Die Mumber: 1000009

Alloy & Templet 6061-76

Production Description, Round Bar 2"x 20' 6061-T6 D00009

Length (inch): 240

Bundle number: 16-P-421-061,16-P-421-062,16-P-421-063,16-P-421-064

Pate: 05/01 2018 Ment Mumber 5.41) 162058

Applicable Sur-intention (ASTM B221 STANDARDS

CHEMICAL ANALYSIS:

	02/01/2017	01.0>	20.0>	986.86	610.0	610.0	880.0	0.022	hhs.u	87770	976'0	149.0
	Kemarki	JATOT	EVCH	IV								17/2
-1		Yodi	0	14	III.	иZ	40	пМ	Cu	971	3M	18

MECHANICAL ANALYSIS:

	01.2	103
Elongation % I.A 2" Remark,	(izi) dignavi? blaiY	Ult. Strongelt (ka)

with chemical analysis and incensations analysis to match atuminium alloy standard. All profiles, each profile with each MTC, showing material shipped match aluminium alloy as per standard,

HIBDQUINU Of ails and are available for teview upon request, reforms to ASTM and the PO noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 We hereby county that the item listed have been checked and tested in secondance with the specifications

musinsM viilauO

JESS-11648304 224

P0,9609

Customer:

007025 001

Certificate: 323707

(Ji

Your Order:

C17720

MAS Order: DS 0012604 01

North American Stainless Canada Inc. 740 Imperial Road North Gueiph, ON N1K1Z3

METALLURGICAL TEST REPORT

Date: 8/16/2017 Page: 1

6870 Highway 42 East Ghent, KY 41045-9615

Finish: 28

Steel: 304/304L

Corrosion: ASTM A262/15 A;180Bend-O

STAINLESS STEEL SHEET, C.R. ANDRALED & PICKLED; UMS 30400/30403

ASTM A240/16a, A480/16b, A666/15; ASRE 8A240/15, SA480/15, SA666/15

CHEN OWLY ON FOLLOWING ASTM: A276/17, A479/17, A484/16, A312/16

CHEN OWLY ON FOLLOWING ASME: SA312/13, SA479/13

AMS 5511H/5513J 20HEK; HIL-5059D AND3(X CRN MEAS); MIL-4043B

NACE MR0175/ISO 15156-3:2009 A, MR0103/07; QQS766D-A X MAG PERM MIN. SOLUTION ANNIAL TEMP 1900F, WATER QUENCHED PRODUCT DESCRIPTION:

all

*Melted & Manufactured in the USA; Mat'l is DFARs Compliant Steel Making Process: EAF, AOD, & Cont. Casting EN 10204:2004 3.1; RoHS 1 & 2 Compliant Mat'l is Free of Mercury Contamination. No weld repairs Product Mfg.by a Quality Mgt.Sys. in Conf. w/ISO 9001 Material is Free of Radioactive Contamination REMARKS:

4, 175 SHEETS -----Length-----096.00 Mark Pieces Commodity Code 27 MA

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

459P Trans. ANALYSIS 20 õ C) Je 3H .0162 .3100 CM(Country of Mett) ES(Spain) US(United States) ZA(South Africa) JP(Japan) 18.2830 CR × S S .4160 1.7765 * 2 ₹ 8 .3080 N N .0631 * IN 8.0820 .0310 Chemical Analysis per ASTM A751/14s .0010

C 中 団 田 エ C

» L

Product Id

Coil #

Skid # Thickness

Wideh 48.0000

Height

E26433

01459P F

.1200

MECHANICAL PROPERTIES

100 mm	Product Id# Coil #
01459P	Coil #
74 18	0 0 P
93.97	UTS
47.25	20C .2% YS XSI
48.77	20C .2% YS 20C ELONG % Hard XSI %-2" RB
85.00	% Hard
85.50	Tail Hard

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Dept. Mgr. Technical

KRIS LARK

8/16/2017

52 DC#

INSPECTION CERTIFICATE

(è)	048"(1.2644) X 48" X 08" 048"(1.2644) X 48" X 08	.1051/2 7MM/) X 48" X 90"	SOLA SEPA VINE VINE A SOLA SOLA SOLA SOLA SOLA SOLA SOLA SO	31215		HANGEL MAY COURS DESIGNED TO SERVICE TO SERV
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TEIO:: 346480511 LEIO:: 346480511 LEIO:: 346480511

Fax: 946480128 Email: calpradera@calibradospradera.es



www.calibradospradera.cs

CERTIFICADO DE CALIDAD/QUALITY REPORT

I.E

EN 10504\DIN 20046

De acuerdo a /Made according to:

N. CEKLINGVDO \ CEKINGGVIE NIF: 49184

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE

Norms : EN 10277

\$876\$

Productos Calibrados de acero. Condiciones técnicas de suministro.

: mroVi

VTBVKVN

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Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO PRODUCT ACCORDING ASTM A108

25,40	ולולול	150'0 -	₹66.€	1018 RED. ESTIRADO 25,40 (1")	MN-48543
75,40	141287	150'0 -	966°I	1018 RED. ESTRRADO 25,40 (1")	M1848145
30'16	1£8916	150'0 -	928	1018 RED. ESTIRADO 30,16 (1 3/16")	PAR-48143
75,40	141569	150'0 -	2,992	1018 RED. ESTRADO 25,40 (1")	PAR-48143
50'61	141567	150'0 -	891.1	1018 RED. ESTTRADO 19,05 (3/4")	PAR-48143
85'88	141580	1900-	1.012	1018 RED. ESTIRADO 28,58 (1 1/8")	PAJ-48144
25,40	141279	150'0 -	966'1	1018 RED. ESTTRADO 25,40 (1")	PAJ-48144
5€9	141159	150,0 -	1.122	1018 KED: EZLIKYDO 6,35 (1/4")	SL V8V- IA
5L'18	6110#1	150,0 -	≯ 66	1018 RED. ESTIRADO 31,75 (1 1/4")	CA-47950
72'40	011111	150'0 -	866	1018 RED. ESTIRADO 25,40 (17)	CA-47950
94,71	141114	150'0 -	010.1	1018 RED. ESTIRADO 17,46 (11/16") [2] [1] [1]	6467A-UO
₱6°L	141115	150,0 -	1.052	(1018 KED. ESTTIKADO 7,94 (5/16")	6467 4- UO
25,40	601111	150'0 -	866	1018 RED. ESTIRADO 25,40 (17)	TET81-91M
75,40	671481	150'0 -	846	1018 RED. ESTIRADO 25,40 (1")	PAR-48569
Newsmittenski	40	PANTAGE STATE	32.1	DESCRIPCION SE	Prichas Order
			maph below		

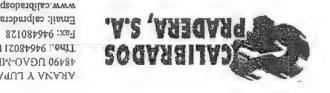
Composición química de la colada / Chemical Analysis of Heat

541'0	010'0	1100	660'0	0000	810'0	059'0	172,0	6,083	0910	42055 G	ולולול	000	25,40
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541'0	010'0	110,0	660'0	0000	810,0	0,650	172,0	680,0	091'0	42055 G	141279	00'0	25,40
081'0	0,012	0,022	0000	800,0	0000	017,0	002'0	0000	091'0	41975 GM	141179	00'0	55,3
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0,163	0,025	610,0	0000	0000	0000	009'0	0000	0,000	721.0	VV +661+	ולווולל	000	94,71
091'0	800'0	0,020	0000	700,0	0000	0110	067'0	00000	0/1'0	WO PETCH	141112	00'0	76'L
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%	%	%	%	%	%	%	%	%	%	COLADA	OF	· vac	ME

Caracterleticas mecánicas / Mechanical properties

TTP0 | 946480211 48490 DGVO-MIEVAVELES/VIZCAYA (SPAIN) ARAMA Y LUPARDO, 2

www.calibradospradera.es Email: calpradera@calibradospradera.es



CEKLILICADO DE CALIDAD/QUALITY REPORT

3.1

EN 10704/DIM 20046

De seuerdo a Alade secording to:

N. CEKTIFICADO / CERTIFICATE NR.: 49784

200,00

200,00

78'40

28,40

65,72

95,72

CUSTOMER Delivery Note Nr. LES ACIERS TRANSBEC (1997) LTÉE CLIENTE ¥8764 VEBARAN

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norma: EN 10277

Bright steel products. Technical delivery conditions.

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% ndissirted	Dureza UB	olnoimagnalA noilagnold	ositsklamid Iniog bloiI	Resistencia Tens. strengist	COLADA	10	MEDIDA
	ЯН	Low 50 mon.	0,2% Whima2	Smm/M	Cast Nr.		Меаѕигетепі
04,72	00'941	21,86	LE'595	14'985	D 55907	137149	75,40
6£°LS	200,00	28,40	76'965	623,30	45055 G	141109	05,20
94'19	216,00	10,30	02,820	09'90L	45134 CM	141112	\$6°L
88'09	00,081	19,94	70,852	01'095	VV \$6617	141114	94,71
6E,72	200,00	28,40	26'965	623,30	45055 G	141110	04,24
58,35	180,00	34,68	07,242	09'115	V1892 AG	611011	SL'IE
11,79	190,00	01,8	75,753	£6°019	41975 GM	141176	55,3
62,72	200,00	28,40	Z6'96S	623,30	42055 G	141279	04,22
15,62	196,00	14'24	74,812	90'175	42186 AG	141280	85,82
82,28	200,00	8£,e1	££, £62	632,89	41645 G	141767	50'61
6£°LS	200,002	28,40	76'965	05,523	47022 G	141769	07'57
54,62	1 65,00	21,06	525,36	90,122	tidii VC:	16831	30,16

76,362

76.962

Calidad Superficial

25,40

72,40

7	VIVIVI	1018 RED. ESTIRADO 25,40 (1")
7	141287	1018 RED. ESTIRADO 25,40 (1")
7	188916	1018 RED. ESTIRADO 30,16 (1 3/16")
7	141569	1018 RED. ESTIRADO 25,40 (1")
7	141267	1018 RED. ESTIRADO 19,05 (3/4")
7	141780	1018 RED. ESTIRADO 28,58 (1 1/8")
7	141279	1018 RED. ESTIRADO 25,40 (1")
7	141179	1018 RED. ESTIRADO 6,35 (1/4")
7	611041	1018 RED. ESTIRADO 31,75 (1 1/4")
7	011110	1018 RED. ESTIRADO 25,40 (1")
7	villti	1018 RED. ESTIRADO 17,46 (11/16")
7	141112	1018 RED. ESTTRADO 7,94 (5/16")
7	141109	1018 RED. ESTIRADO 25,40 (1")
7	137149	1018 KED. ESTIRADO 25,40 (1")
EN 10777-1		Дегсиріюн
Clase	OF	DESCRIPCIÓN

623,30

05,523

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141287

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIA ALEAR

Tfno.: 946480211 48400 NGYO-WIBVAVITES/AISCYAY (SBYIM) ARANA Y LUPARDO, 2

Fax: 946480128

www.calibradospradera.es Email: calpradera@calibradospradera.cs



De acuerdo a Made according to:

CERTIFICADO DE CALIDAD/QUALITY REPORT

EN 10704\DIN 20048 I.E

LES ACIERS TRANSBEC (1997) LTÉE N. CERLIEICYDO I CERLIEICYLE NY: 49784

CUSTOMER CLIENTE Norma: EN 10277 Delivery Note Nr.

VEBVBVN

18701

Productos Calibrados de acero. Condiciones técnicas de suministro.

: HLION

Bright steel products. Technical delivery conditions.

QUALITY DEPARTMENT: Conify that the product fulfils the order specifications. DEPARTAMENTO DE CALIDAD: Cerdifica que el mencionado producto cumple con las especificaciones del pedido.

Directors de Calidad Firmado: Susana Fernández



Eccha/Date: 23/11/2017

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		5	CYGS CERY	TCODE:		1	DIENUMBER S 4	660	DATE	DATE OF SHIPMENT	1ENT			Ö	ORDER NO.	O. MANIFEST NO.	ST
SHIPTO			C74	CVSTOMER PO C74902		2	6061	TEMPER T6511	SALESMAN	SMAN JSE AC	TEMPER SALESMAN TEMPER SALESMAN	U	Z10182	Z -	e. π	MADE IN CANADA	379633
SODESCRIPTION 2.5 x 1.5 FB			cus V8	CUSTOMER PART NUMBER V836661	RTNUMBE	1	PARTOPSCAIPTION 2:5 x 1.5 FB	S FB	K	/			ASTM 822	21-1	AMS	ASTM B221-14 - AMS GOA 20018	
Mechanical Properties	erties													1			
Lot	Alley	. /		Test	Test Date	3	Ultimate Tensile	nsile	Yield Strength	rength	Perc	Percent	Hardness	3		Conductivity	
A.11	6061	1,0195	2,	Oct/1	Oct/13/2017	A)	Strength (KSI) 42.30	(KSI) 42.30		(KSI) 38.40	Elongation 12.80	ation 12.80	Rockwell F 89.0.89.2.89.5	F 80.5			
Chemical Composition	sition																
Cast Number Lot A	Alloy Si	2	3	Mn	Ma	ä	Z	70	Ħ	g	8	77	ä	Pb	S.	8	ð
386350 A.11 6	6061 0.6	0.15	0.21	0.04	0.87	0.07	0	0.01	0.02	0	0 0	0					

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

Tulsiram Mohabir Quality Control Manager



Material Test Report

Manifest: 332924

Ticket:

6196955

Print Date: T1/21/17 Description: 1.250 x 3.000 RECT, BAR Alloy Temper: 6061 TollA Part: 160001446 Dic: E204032 Cust P.O.: 4500833757-RY003 Our Order: 880459 - I

				ties	ll Proper	soinsdool	N			
Other Total	Other Fach	i <u>T</u> 10.0	<u>11.5</u> 20.0	12 80.0	2M 48.0	gM 80.0	u.Q 12.0	₽∄ 0.24	95'0 !\$	Casi Yum
unt	nixaM			noh	isoqmo⊃	lenical (Э			

8.41 55.54 18.64 L1/12/01 HV 38335 14614 2" gage length 2% offset Tensile Date ĪĎ Flongation Vield. Ultimate Test #107 # ISE) Sample Strength ksi

A8/002A-QQ-2MA Applicable Specifications: ASTMB221-14

Country of Origin: ONTARIO, CANADA

agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment. incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within Aluminum Association and agreed upon customer specifications. Can An assumes no liability for additional costs which may be Can An Aluminum Extrusion Inc. certifies that materials shipped under this order been inspected and tested in accordance with

Evan Eng, Quality Assurance Manager

1-21-745

ナカケモド

Material Test Report

Manifest: 328412

LICKEL

2222832

Print Date: 8/16/17 Description: 1,000 x 2,000 Alloy Temper: 6061 T6511 Pare 5131-8251 Dic: E202140 Cust P.O.: 792398 Our Order: 437823 - 2

Country of Origin: ONTARIO, CANADA A8/005A-99-2MA V21MB551-14 Applicable Specifications: 6.8 38.62 **38.1**₽ L1/6/8 3B9405 427847 2" gage length १७९६६० % ह Tensile Date ID Elongation Yield Ultimate Test # 107 C321 # Sample izal digazni2 Mechanical Properties 61.0 \$0.0 20.0 10.0 20.0 ₽8.0 52.0 40.0 61.0 09.0 3B9405 OtherTotal OtherFach II uZ 15 SM UIV. CIL <u> F</u>¢ muMiza!) IS Maximun Chemical Composition

sgreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with

Evan Eng, Quality Assurance Manager

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377291 377291 4DA						Other	
Z da		Conductivity			;	Co A	
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208405 — 1 MADE IN CA CERTIFICATION MILL TEST ASTM B221-14		Hardness	Rockwell F 90.9,91.1,91.5		ä	0	
		ent	ation 10.30		7.	3 0	
Sep/07/2017 Selesman HOUSE ACCOUNTS		Percent	Elongation 10.30		œ) O	
DATE OF SHIPMENT SED/07/2017 SALESMAN HOUSE ACCO		珨			>	0	
DATE OF SHIPME. SED/07/2017 SALESMAN HOUSE ACC		Yield Strength	40.30		Ga	0	
4 发		Yield			F	0.019	
4658 TEMPER TE TRIPTION		nsile	(KSI) 42.80		ZD	0.023	
S 4658 ALLOT TEMPER 8061 T6 PART DESCRIPTION 1" X 6" FLAT BAR		Ultimate Tensile	Strength (KSI) 42.80		Z	0	
		E C	n!		Ö	0.056	
PO PO PART NUMBER		Test Date	Sep/07/2017		Mg	0.832	
CERT CODE: 1 CUSTOMER PO 106802 CUSTOMER PAI		Test	/das		Ø	90.0	
CERI 1 cusi 106 cusi DTC					a	.189	
					9	0.216 0	
					S	0.576 0.216 0.189	
	Mechanical Properties	Alloy	6061	Chemical Composition	Alloy	6061	
BAR	Prop			omp	Lot	A.11	12
CAMP	nical			alC			
SHIP TO ACIER CAMPI SO DESCRIPTION 1" X 6" FLAT BAR	echai	to	A.11	nemic	ast Number	1)
S A S -	Σ	-1	×	Ö	e	37241	

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

Tulsiram Mohabir Quality Control Manager

1 - CUSTOMER COPY

50230 North American Stainless Canada Inc. 16 METALLURGICAL TEST REPORT 0 10 Chent, KY 41045-9615 Guelah, ON NIK1Z3 X. 15021 347-5000 (502) 347-6000

Certificate: 373018 31

007080 003 Customers MAS Order: IN 0257931 04

Date: 1/19/2018 Steel: 304/304L

Pinish: CD

Corrosion: ASTM A262/15 Prec A/R OR

PRODUCT DESCRIPTION:

Your Order: M81116

Nound Ber, Annealed, Cold Draw
UNE 30400/30403 EF 10204 3.1, AFTH AA84/16
ASTH A276/27, ASTE A479/17, ASTH A182/16a CHER CHEY,
ASHE SA479/13, ASTE SA182/13 CHER CHLY
ANS 56393, ANS 5647K, ANS QQ8-763D, QQ8-763F, ASTH F899/12b
SOLDTION ANDRAL TEAT 1900F MEN, ASTH A320/17a CL 1 OR 28
ASTH A193/16-ASDE SA193/13 CL 1 OR 28

Heat Treat Code: 44,987

IN USA FAUR FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION 2011/65/EU.ROHS. EAST-AOD+CC. NO WELD REPAIR. MELTED AND MING COMPLIES W/REQUIREMENTS OF DEAR 252,225-7009 NO DIRECTIVE REMARKS:

3/8

#4.00 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
T S Chicoming of Merity C % CO %
Product Id Shid & Shid

PROPERTIES MEGHANICAL

SI RSI 14 Elng	6.97 111.55 69.24 41.70	
ED HO. SYS	226.0	
3 -1 H	i) #	
Product Id	MU2280 9	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material mests the specifications stated. These results relate only to the frame tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK

1/19/2018

5h 3d

Z6May1-

Certificate of Mill Test Results

31. VIM-510902-001

de l'amiyee faite par un laboratoire qualifie. SIGNE PAR:

PO/Rd AC06606184

11 '-" DIAX 144.0000" PART NO. BARRE ROYDE ALUMINIUM 6061-T6511 VOIES OREATELLE DIA-AVITEMENT

2202 KAISER DRIVE

FABRICATED PRODUCTS, LLC

fournisseur du materiel ou les données resultent une copie conforme du rappon fourni par le None certifions que le document reproduit ici cat

mos munimulAresis N. enilnOll: oth CERTIFIED TEST REPORT

KAISER ALUMINUM FABRICATED PRODUCTS

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	OT DIOS			
12.000 FT		982819	73.000 PCS	4.000 LB
TENETH TENETH	ON WEST WILL	BY NUMBER.	CURNTITY	CHT SHIPPED
TEMPLE	Z00238043	02/21/2017	005	1085
	KAISERSELECT PRECISION ROD 1.1	SHIP DATE:	TIME U.EW	RER ORDER NUMBER
	PRODUCT DESCRIPTION	STK	/87.FI	X-540062-2
	BRODE TO LOS SERVICES	RABMUN TRAS RAMO		REMUN OF REMOTE
			84064	IM ,OOSAMAJ

Actual Physical Properties

			.000017	YTS (KEI)	UTS (KSI)	PVMSTE	# TECHY	7017
CNEE	COMDUCT	SSENCHYH	TONOTE	(700) 000		1000	1000	Z00238043
		cc 30	19.2	0.03	8.22	TOCO		
A\N	A\V	RE 93			S.IZ	2000	1000	ZC0238043
A\N	A\N	RE 93	£.61	2.84		5000	TOCO	EP08EZCGZ
	M/N	E6 E8	19.3	0.02	T.S2		TOCO	E\$09EZ00Z
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A\N	W/M	RE 93			9:05	9000	1000	Z00Z38C43
Y/N	A/K	#6 3B	9.81	6. rh		6000	TOOU	Z00238043
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JANUARIUS LUNGUIGO A Mars.

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Applicable Requirements:

PROPERTIES AS FOLLOWS: UTS - 42.0 ASI MIN YIELD = 38.0 KSI MIN FLONGATION = 10.08 MIN PER ASTM-8221-14, STENCILED ASME-SH221 2009 SECT II PER AMS-QQ-A-205/8A JUS# A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-16511/16 ELEVATED MINIMUM MECHANICAL

Miscellaneous Notes

OF ITS COMPOUNDS ARE UTILITIED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL. MERCHEY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. WEITHER MERCURY NOR ANY ARC MI GET, IRM ARU MI GEEUTCARUNAM

Line Item: 002 Raiser Order Number: 6025801 Plant Seriel: 00273359

Esde I ct S

Certificate of Mill Test Results

7/2 8ª 7148M85

BL VIM-510902-001

de l'analyse faire par un laboratorre qualifie.

PO/Rd AC66666184

PART NO. 1.1°5" DIAX 144.0000" BARRE ROUDE ALUMINIUM 6061-T6511 VORSE OFFITETIE DIV-VALLEYMELD

fournissem du materiel ou les données tesultent une copie conforme du rapport foumi par le Nous certifions que le document reproduit ici est

mos.munimulAreaisX.aniinOli:offn CERTIFIED TEST REPORT

FABRICATED PRODUCTS MUNIMUA

KALAMAZOO, MI 49048 **2502 KAISER DRIVE** FABRICATED PRODUCTS, LLC KAISER ALUMINUM

CERTIFICATION

Atmee L. Macnowski, Cuality & Technology Manager inspected and tested and found in conformance with applicable specifications forming a part of the cosciption act forth in Kaleer's sales Acknowledgement form. Any warranty is limited to that shown on Raisel's general terms and conditions of sale. Test reports are on file, subject to examination. hereby certifies that metal shipped under this order has been Satist Aluminum Eabricated Products, LLC

MATCHER BOOK AND THE PARTY OF T

Line Item: 002 Kaiser Order Number: 6025801 STEELE SERTET: 00513336

Page 2 of 2

Rockwell Hardness Test Test de dureté Rockwell

LES ACIERS TRANSBEC (1997) LTEE.

Client / Customer:

Adresse / Address:

4024 BONT TE COKBN2IEK' #501

commande Sapa / Sapa order #:

HYLSR2 LAVAL, QC

P890609

OU-46528 # pou de commande / Purchase order # :

de matrice / Die #: W2 13158

Alliage & Irempage / Alloy & iemper:

Coulée / Casi #: 67061 # Contrôle / Control #: 76511-3

Min. requis /

91 1909

Min. required: 88 HRE

Rockwell E hardness: 88 HRE Dureté Rockwell E /

Composition chimique typique / Typical chemical composition:

	<u>II</u>	นา	10	5W	uw	no	9-1	!S	
	XDM 01.0	0,10 Max	0,10 Max	06,0 - 24,0	XDM 01.0	0.10 Max	XDM 25,0	0,20 - 0,60	£909
	0.10 Max	0,10 Max	0,10 Max	09'0 - 01'0	0,10 Max	0,10 Max	xpM 25.0	06'0 - 09'0	5009
	XDM 50.0	0.05 Max	XOM £0.0	PS'0 - 9P'0	0.18 - 0.26	81,0 - 80,0	82.0 - 41.0	PZ'0-99'0	A2009
	xDM 21,0	0.25 Max	25.0 - 40.0	05.1 - 08.0	xDM 21,0	0,15-0,40	xoM 07.0	08.0 - 05.0	1909
İ	0.20 MOx	0.20 Max	***	08.0 - 04.0	08.0 - 04.0	0,10 Max	XDM 6.0	£1 - 2'0	1253

Nous certifions que le matériel fourni rencontre les exigences chimiques telles qu'annoncées par la nornée ASTM 8-221-14 excepté pour la section 8.2 (nombre de spécimen).

ASIM B-221-14 except for section 8.2 (number of specimen). We hereby certify that the material supplied meets the chemical properties as published by the

date: 2016-10-06

Sincèrement vôfre,

Yours truly,

Quality technician Technicien de la qualité Gilles Pelletier

Max. permitted: 100 HRE

Max. permis /

Longueur / Lenghi: 6097 mm

Description: 1/4" O.D. ROD

F.07.04 revo Rapport depropriétés mécaniques.doc

CLIENT SICHYLINE SICANTURE SLEPE A1-51-859501 Cast No. 2# CAST CHEMICHAL COMPOSITION: Hardness (Websler) POEMES: (1/81 H351-1997) (C (1/5/1) H221) Certificate of compliance (Certificat de conformité) 0859 Q6 76 54.8F 8.25 43'0 91 A1-41-849401 Hardness (Rockwell E) Report No. Total Elongation (%) (iaxi) Conductivity % Ultimate Tensill PIEID Temper VHON Order No. Test Date: 4/May/17 (munimulA to semegor elisne) test IliM 1302'd9 3 MELTEST + CERT CONFORMITE Sous-Total (29) 615001 TIGE RONDE 1 1/2 NATUREL SOTION SECTION 욧 WILLIAM SERVICE HOSTYHAIT NO ON NET NO MECECURIS NO DE LITELE 104648 NO CLIENT: L-3693 **STTOYA YMMIL** NO CLIENT NO COMPANY EXTRIDEX H17 6R2 A #201 A #201 A #201 Guillaume Morin PAJ-47729 WEIGHT STATE NO COMMYNDE CLIENT: 4054, BOUL LE CORBUSIER £69£-£96-09Þ R-015478-2 ACIERS TRANSBEC (1997) LTEE NO DE LECENDRIE DISCITENT 12/May/17 120289 DATE DE LARAISON MOBORON

MATERIAL RECEIPT INSPECTION FORM

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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR U

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-AZM0/8 (OP AMS 4160) OR ASTM B211 OP ASTM B221 M6061T6R D.DDD

PART NUMBER:

EG. 5/8" ROUND BAR = M6061T6R0.625 WHERE "D.DDD" = DIAMETER IN INCHES

CHECKED

MFG. APPR.

APPROVED

DE APPR

DATE

09 DRAWN B REFORMAT DWG, ADD B211& B221 SPEC (ZN D8-1),
A NEW ISSUE DESIGN 09.07.13 TITLE OF THE PROPERTY OF THE P DRAWING NO.

M6061T6R

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MATERIAL RECEIPT INSPECTION FORM

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SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-280/8 (QR AMS 4160) OR ASTM B211 OR ASTM B221 M6061T6R|D.DDD|

PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

B REFORMAT DWG, ADD B211& B221 SPEC (ZN D8-1). M6061T6R DESCRIPTION 6061-T6 ROUND BAR DART AEROSPACE LTD CP 09.07.13

DS 01.06.08

BY DATE SHEET 1 OF REV. B SCALE STN

A NEW ISSUE

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APPROVED
DE APPR.
DATE 00

09.07.13

DESIGN DRAWN CHECKED MFG. APPR

MATERIAL RECEIPT INSPECTION FORM

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V-710-65-14						AG .	TYPE OF MATERIAL SIZE OF TEST SAMPLE SIZE OF MESS / DUROMETER READII
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Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

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SPECIFICATION CONTROL DRAWING

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SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B277 M6061T6R|D.DDD| |DIA.

PART NUMBER:

WHERE "D.DDD" = DIAMETER IN INCHES EG. 5/8" ROUND BAR = M6061T6R0.625

DESIGN B REFORMAT DWG. ADD B2118 B221 SPEC (ZN D8-1).
A NEW ISSUE APPROVED MFG. APPR CHECKED 09.07.13 M6061T6R COPPRIGHT SOM BY DAY ARROSPACE TO COPPRIGHT SOM SO COMPRIGHT SOM SOM CONTROL OF COMPRIGHT SOM DART AEROSPACE LTD S SHEET 1 OF 09.07.13 01.06 08 DATE REV. B SCALE ≫

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INSPECTED BY:

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SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR/ASTM B21 M6061T6RID.DDD

PART NUMBER:

EG. 5/8" ROUND BAR = M6061T6R0.625 WHERE "D.DDD" = DIAMETER IN INCHES

B REFORMAT DWG, ADD B2118 B221 SPEC (ZN D8-1).
A NEW ISSUE M6061T6R DESCRIPTION 6061-T6 ROUND BAR DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA RIGHT © 2001 BY DART AEROSPACE LTD

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SIGNED OFF BY:	SVQ	INSPECTED BY:
ENGINEERING SIGNOFF (if required)		QC 18 INSPECTION

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PURCHASE MATERIAL: AISI 304/316 SS ROUND BAR (NOTE: AISI 303 NOT ACCEPTABLE)
SPECIFICATION: ASTM A276

PART NUMBER:

M304R D.DDD

EG. 0.75" ROUND BAR = M304R0.750 WHERE "D.DDD" = DIAMETER IN (NCHES

SPECIFICATION CONTROL DRAWING

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B REFORMAT DWG. ADD SPECS (ZN D6-1),
A NEW ISSUE

MFG. APPR.
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304/316 ROUND BAR

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09.07.15

DESIGN DRAWN CHECKED

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
DRAWING NO.
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DATE 08.03.03 08.07.15

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SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR 0

M6061T6B T.TTT | X | WW.WWW

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OK ASTM B221

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PART NUMBER:

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000 WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

THICK

HTGIW

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CHECKED APPROVED A NEW ISSUE ASTM B211/B221 (ZN D7-1) DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
M6061T6B
SHEE DESCRIPTION 6061-T6 BAR COPYRIGHT @ 2001 BY DART AEROSPACE LTD BY S SHEET 1 OF 1 01 08 08 09.07.13 DATE REV. B SCALE NTS

DESIGN

09.07.13

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THICKNESS ORDERED: 1,000	19 20	NAM SD/	ATE:	

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR SPECIFICATION: OQ-A-225/8 OR AMS-OQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-OQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

B

M6061T6B T.TTT | X | WW.WWW THICK WIDTH

PART NUMBER:

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000 WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) NEW ISSUE M6061T6B 6061-T6 BAR
COPYRIGHT 0 2001 BY DART A ENGSPACE LTD
COPYRIGHT 0 2001 BY DART A ENGSPAC DESCRIPTION DART AEROSPACE LTD BY DATE S SHEET 1 OF 09.07.13 REV. B SCALE NTS

APPROVED CHECKED DRAWN MFG. APPR

09.07.13

DESIGN

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		Y	ENGINEERING SIGN OFF
	G		DOES THIS MATERIAL REQUIRE
	N		CORRECT M# ON THE MATERIAL
	Ν	0	CORRECT MATERIAL IDENTFICATION
52588 # Tradt	N	(3)	CORRECT REF # TO LINK CERT
6	(N)	1	PHOTO REQUIRED
	N	(1)	CORRECT THICKNESS
1569 1751	N		CORRECT MATERIAL PER M-DRAWING
	N	W	CORRECT GRAIN DIRECTION
	N	Y	СОВВОВІОИ
	<u>M</u>		CORRECT FINISH
	N	人	SURFACE DAMAGE
	(N	//	
COMMENTS	GCK	(CP	DESCRIPTION
	SR	N.	
SHEET SIZE RECEIVED: THICKNESS ORDERED: THICKNESS ORDERED: THICKNESS ORDERED: THICKNESS ORDERED:	4	10	MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:
8102 X 03.000 PO / BATCH NO.: 039336 X 036.18	61	AAI	JO & MATERIAL STAD
SECEIPT INSPECTION FORM	r Ł	AIS	AHTAM

					HARDNESS / DUROMETER READING
					SIZE OF TEST SAMPLE
					JAIA∃TAM 7O ∃9YT
MEBSTER	ם אחם	A AUG	HRB	НВС	
		٨	ULTS BELOV	ECORD RES	R
	SS CHECK	N A HARDNE	ND PREFORI	IA JAIABTAN	CUT SAMPLE PIECE OF I

testers located in the Quality Office

:3TAQ	8-69 MAR 19 2018	:BTAG
SIGNED OFF BY:	SAG	INSPECTED BY:
ENGINEERING SIGNOFF (if required)		OC 18 INSPECTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DOES THIS REQUIRE AN EXTRUSION REPORT

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM BZ11 OR ASTM BZ21

B

SPECIFICATION:

PART NUMBER:

M6061T6B T.TTT X WW.WWW

THICK

MIDIM

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000 WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWWW" = WIDTH IN INCHES

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B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1) NEW ISSUE 09.07.13 M6061T6B DESCRIPTION 6061-T6 BAR DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA DS 010608 유 REV. B 09.07.13 SCALE NTS

DE APPR.

MFG. APPR. APPROVED

DRAWN DESIGN

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beniupar ti) 4:		ED OEE BA:	SIGN				INSPECTED BY:
	SING SIGNOR	ENGINEER					C 18 INSPECTION
		-	the Quality Office	located in	S/9}S		
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			ULTS BELOW				
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	-				N	人	EXTRUSION REPORT
					-		DOES THIS REQUIRE AN
					(M)	٨.	DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF
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					N		ORRECT MATERIAL IDENTFICATION
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	SI	COWWEN				NC NC	DESCRIPTION

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION: PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

B

PART NUMBER:

M6061T6B T.TTT X WW.WWW

THICK

HTOIW

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000 WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

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B REMOVE QQ.A.250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZN D7-1)

S

M6061T6B DESCRIPTION DART AEROSPACE LTD 84 SQ DATE

COPYRIGHT © 2004 BY DART AEROSPACE LTD

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SCALE

DE APPR.

6061-T6 BAR

09.07.13

MFG. APPR. CHECKED DRAWN

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NEW ISSUE

APPROVED

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SIZE UP TO 1.5" INCL. OVER 1.5" TO 2.5" INCL. OVER 2.5" TO 4.0" INCL. OVER 4.0" TO 6.0" INCL. OVER 6.0" TO 8.0" INCL.

TOLERANCE +0.000/-0.002 +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006

TOLERANCES:

PART NUMBER:

PER ASTM A108 AS FOLLOWS:

MIL-S-7097 OR ASTM A108

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR

SPECIFICATION:

EG. 7/8" ROUND BAR = M1018-R0 875 M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES

A NEW ISSUE B REFORMAT, ADD ASTM A108, ADD TOLERANCES

1872 CP DS DESCRIPTION

DART AEROSPACE LTD
HAWKESSURY, ONTARIO, CANADA
DRAWING NO.
M1018-R
SHEE CP 12 09 05

DS 01.06 12

BY DATE

CHECKED MFG. APPR. DRAWN DESIGN

APPROVED

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REV. B SHEET 1 OF 1

12.09.05

1018-1025 ROUND BAR NT COPYRIGHT 6 2001 BY DART ARROSPACE LTD NT COPYRIGHT 6 2001 BY DART ARROSPACE LTD NT COPYRIGHT 6 2001 BY DART ARROSPACE LTD NT COPYRIGHT 6 2001 BY DART ARROSPACE COPYRIGHT CO

SCALE

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he Quality Office	I ni bateool	SIGIS	-	Havayyya tamoyo da too ahayy
	-	-	ופן	ARDNESS / DONOMETER READIN
	-		1	YPE OF MATERIAL SIZE OF TEST SAMPLE
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ID PREFORM A HARDNESS CHECK.				EUBIA BIANNAS TUU
THE DEFENDATIVE STILLING	40 1010.	LVBA	. 00	10110 1 101110
		M	Y	EXTRUSION REPORT
		B		DOES THIS REQUIRE AN
		(N)	7	ENGINEERING SIGN OFF
		(1)		DOES THIS MATERIAL REQUIRE
		N	0	CORRECT M# ON THE MATERIAL
		N	(8)	ORRECT MATERIAL IDENTFICATION
E0781527 2	II MOH	N	(3)	CORRECT REF # TO LINK CERT
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· · · · · · · · · · · · · · · · · · ·		N	(4)	CORRECT GRAIN DIRECTION
		N	A	CORROSION
		N	, N	CORRECT FINISH
		N	人	SURFACE DAMAGE
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COMMENTS		вск		DESCRIPTION
		R :R	NC	

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PURCHASE MATERIAL: AISI 304/316 SS SHEET ANNEALED

PART NUMBER: FINISH: SPECIFICATION: FINISH
UNPOLISHED No. 2
UNPOLISHED No. 2
UNPOLISHED No. 2
POLISHED No. 4
BUFFED No. 6
BUFFED No. 7
BUFFED No. 8 MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (306) OR ASTM A240 OR ASME SAZ40 M304S TT GA #P WHERE "TT" = GAUGE THICKNESS WHERE "#P" = FINISH IDENTIFIER 20 DART M-NUMBER
IDENTIFIER
1P
2D
2D
NONE
3P
6P
7P
8P

0

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE: NOM. THICK.
(IV)
0.01875
0.021875
0.021875
0.025125
0.034375
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15.01.06

PRINCIPLE OF THE PROPERTY OF T 304/316 SS SHEET

MFG. APPR. APPROVED CHECKED DRAWN DESIGN

> M304S DRAWING NO.

SHEET 1 OF 1

REV. D

NEW ISSUE

DESCRIPTION

DART AEROSPACE LTD

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SQ SQ ç MB

DATE

09.06.01 01.09.24

12.09.20 15.01.06

DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL PAN WITH FINISH OTHER THAN 28 (ZN 85). REFORMAT DWG, ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A

ADDED GAUGES 0-7.

ECN 15-122 9

RELEASED 2015 FEB 04

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						AG	PE OF MATERIAL 35 OF TEST SAMPLE 10 MESS / DUROMETER READIN
WEBSTER	a Aua		LTS BELOW		ECC		
	SS CHECK.	SANDRAH A N	NROTERORN	ERIAL ANI	TAM	E OF	CUT SAMPLE PIECE
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J					N	٨	DOES THIS REQUIRE AN EXTRUSION REPORT
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			1101	11 hort	N	(2)	RRECT MATERIAL IDENTFICATION
			d 69h	FIROLI	N	(4)	CORRECT REF # TO LINK CERT
					(M)	<u></u>	PHOTO REQUIRED
			OHEH	1101 117	N		CORRECT THICKNESS CORRECT THICKNESS
			VIICA	mt 2 A	N	0	
	· · ·				(X)	(1)	CORRECT GRAIN DIRECTION
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2× 2× 1/2	3ED: 77	1 SIZE BECEI 1 SIZE OBDEE KNESS BECEI KNESS OBDEE	ZHICH		2	13/	MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY REJECTED: QUANTITY REJECTED:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

:3TAQ

8102 81 9AMP8-9 :3TAG

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PURCHASE MATERIAL: AISI 304/316 SS SHEET ANNEALED

GAUGE THICKNESS REFERENCE: PART NUMBER: FINISH SPECIFICATION: UNPOLISHED No. 1 UNPOLISHED No. 2 UNPOLISHED No. 3 POLISHED No. 3 BUFFED No. 4 BUFFED No. 7 BUFFED No. 8 WHERE "#P" = GAUGE THICKNESS WHERE "#P" = FINISH IDENTIFIER M304S TT GA #P 20 DART M-NUMBER IDENTIFIER 1P 2D 2D NONE 3P 4P 8P

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

NOM. THICK.
(NI)
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0. THICKNESS

RANGE (IN)
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0.0178 - 0.023
0.024 - 0.025
0.027 - 0.029
0.027 - 0.029
0.033 - 0.033
0.044 - 0.046
0.047 - 0.052
0.053 - 0.058
0.056 - 0.059
0.066 - 0.072
0.068 - 0.072
0.068 - 0.073
0.084 - 0.098
0.099 - 0.114
0.115 - 0.138
0.099 - 0.114
0.115 - 0.138
0.131 - 0.145
0.146 - 0.176
0.161 - 0.176
0.161 - 0.176
0.182 - 0.194
0.194 - 0.218
0.226 - 0.223
0.238 - 0.263
0.269 - 0.233
0.269 - 0.233
0.269 - 0.233

DATE	DE AP	APPRI DE AP	APPRO	DE APPR.		CHECKED	DRAWN	DESIGN	REV.	>	89	C	0
15.01.06	PR.	ONED	MFG. APPR.	(ED	Z	Z		NEW ISSUE	GAUGE F	C DEFINED FINISH OPTION (ZN C8) AND EXAMPLE OF MATERIAL P/N WITH FINISH OTHER THAN 2B (ZN B5).	ADDED GAUGES 0-7.		
1.06	+	- King	7		AJS	DS		UE	REF (C8-1), R				
COPYRIGHT © 2001 BY DARY AEROSPACE OF THE PROPERTY OF THE PROP	304/316 SS SHEET		M304S TITLE 304/316 SS SHEET		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		DESCRIPTION		REFORMAT DWG, ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A	ON (ZN CB) AND EXAMPLE OF INISH OTHER THAN 2B (ZN B5).			
EROSPACE ON THE CONTROL					O, CANAL	CEL	ВҮ	DS	CP	MB	AJS		
LYD LOSEGON F-INT IT III IN POISSON W/IN-OUT	NTS	SCALE	SHEET 1 OF	REV. D	JA	8	DATE	01.09.24	09.06.01	12.09.20	15.01.06		

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RELEASED

2015 FEB 04

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